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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,167	09/21/2006	Kimihiro Mabuchi	19461-006US1 548063	5242
26211 7590 08/26/2009 FISH & RICHARDSON P.C. P.O. BOX 1022 MININEA DOLLS: MN 55440 1022			EXAMINER	
			MENON, KRISHNAN S	
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			1797	
			NOTIFICATION DATE	DELIVERY MODE
			08/26/2009	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PATDOCTC@fr.com

	Application No.	Applicant(s)				
	10/599,167	MABUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Krishnan S. Menon	1797				
The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>17 A</u>	uaust 2009					
	action is non-final.					
· <del>-</del>						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-17</u> is/are pending in the application.						
4a) Of the above claim(s) <u>7-15</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6,16 and 17</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers	•					
··· _						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	animer. Note the attached Office	Action of format 10-132.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list	or the certified copies not receive	u.				
Attachment(s)		(770,440)				
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal P					
Paper No(s)/Mail Date	6)					

## **DETAILED ACTION**

Claims 1-17 are pending as amended 4/14/09, of which claims 7-15 are withdrawn.

#### Terminal Disclaimer

The terminal disclaimer filed on 4/14/09 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of any patent granted on 10/599,128 has been reviewed and is accepted. The terminal disclaimer has been recorded.

# Claim Rejections - 35 USC § 102

Claims 1-6,16 and 17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Shimagaki et al (US 6,103,117)

Claim interpretation: Applicant's claim 1 recite a perm-selective membrane made from polysulfone and polyvinyl pyrrolidone. The remaining limitations of claim 1 describe a measure of how much hydrogen peroxide can be eluted from the membrane.

Shimagaki teaches hollow fiber membranes and apparatus made from polysulfone and PVP – see examples, with about 40 microns thickness, about 33% PVP content. This reference does not explicitly state the amount of hydrogen peroxide that can be eluted from the membrane, or its UV absorbance. However, since the membrane otherwise has the same composition as well as the starting materials, the residual hydrogen peroxide (from PVP starting material) as well as the UV absorbance resulting from it are assumed to be inherently the same as that of the applicant's.

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Cross-linked – see column 11, starting at line 42. The PVP is also insolubilized – same molecular weight of PVP, as well as cross-linked.

**Argument** that the method of analysis of the residual hydrogen peroxide in the membrane is not taught by the reference is not persuasive. Claim is for a hollow fiber device, which is taught by the reference. The residual hydrogen peroxide – there is no evidence that the reference membrane has residual hydrogen peroxide in an amount more than 5 ppm, or that it will show any more than 5 ppm of hydrogen peroxide when tested using the recited procedue. Applicant has failed to provide any evidence that the reference membrane would have a hydrogen peroxide content of more than 5ppm, or that it would elute more than 10 ppm of PVP. Just because the reference does not explicitly teach of storage stability, it is erroneous to assume that the membrane of the reference would have poor storage stability. Argument that office action makes no arguments why the claimed subject matter is rendered obvious: this is erroneous – the office action has made it very clear that the residual hydrogen peroxide content in the reference membrane would be inherently the same – same composition and starting material. The express, implicit, and inherent disclosures of a prior art reference may be relied upon in the rejection of claims under 35 U.S.C. 102 or 103. "The inherent teaching of a prior art reference, a question of fact, arises both in the context of anticipation and obviousness." In re Napier, 55 F.3d 610, 613, 34 USPQ2d 1782, 1784 (Fed. Cir. 1995) (affirmed a 35 U.S.C. 103 rejection based in part on inherent disclosure in one of the references). See also In re Grasselli, 713 F.2d 731, 739, 218 USPQ 769, 775 (Fed. Cir. 1983). Where applicant claims a composition in terms of a function,

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property or characteristic and the composition of the prior art is the same as that of the claim but the function is not explicitly disclosed by the reference, the examiner may make a rejection under both 35 U.S.C. 102 and 103, expressed as a 102/103 rejection. "There is nothing inconsistent in concurrent rejections for obviousness under 35 U.S.C. 103 and for anticipation under 35 U.S.C. 102." In re Best, 562 F.2d 1252, 1255 n.4, 195 USPQ 430, 433 n.4 (CCPA 1977). This same rationale should also apply to product, apparatus, and process claims claimed in terms of function, property or characteristic. Therefore, a 35 U.S.C. 102/103 rejection is appropriate for these types of claims as well as for composition claims.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krishnan S. Menon whose telephone number is 571-272-1143. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vickie Kim can be reached on 571-272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Krishnan S Menon/

Primary Examiner, Art Unit 1797